

## **Chapter 10:**

### **Health Care Services**

“Neither fire nor wind, birth nor death can erase our good deeds.”

Buddha

“Rest is not idleness, and to lie sometimes on the grass on a summer day listening to the murmur of water, or watching the clouds float across the sky, is hardly a waste of time.”

Sir J. Lubbock

“The dedicated physician is constantly striving for a balance between personal, human values, scientific realities and the inevitabilities of God's will. “

Dr. David Allman

## Health Care Services

### **Did You Know?**

- Greene County is classified as a Primary Care Health Professional Shortage Area.
- 36,669 residents in Greene County under 65 years of age were Medicaid participants in 2003.
- There were 4,798 hospitalizations due to heart and circulation complaints in the year 2000.
- 57.3% of physicians in Greene County were over the age of 46 in the year 2002.
- Only four physicians in Greene County specialized in infectious disease medicine in 2003.

## Health Care Services

The health care service providers in Greene County act as a regional resource for residents of surrounding counties. Because of this, and Greene County's increasing population, it is important to identify the capacity of current health care resources so potential weaknesses in the delivery of health care can be identified. Hospital capacity, skilled nursing, and physician characteristics will be examined to develop a profile of the resources available in Greene County.

### Physicians

The number of total active and primary care physicians in Greene County are listed in Table 10.1 for the years of 1991, 1997, and 2002. From 1991 to 2002, Greene County experienced a 50.8% increase in total number of physicians and a 45.5% increase in the number of primary care physicians. Table 10.2 lists the number of physicians in selected specialties in Greene County and Figure 10.1 indicates the number of physicians by specialty at area hospitals.

**Table 10.1**

#### Physicians in Greene County and Missouri, 1991-2002

	1991 Physicians			1997 Physicians			2002* Physicians			Percent Change 1991-2002	
	Total Active	Primary Care	Primary Care %	Total Active	Primary Care	Primary Care %	Total Active	Primary Care	Primary Care %	Total Active	Primary Care
Greene	541	191	35.3	742	263	35.4	816	278	34.1	50.8	45.5
Missouri	10,095	4,085	40.5	12,764	4,657	36.5					

\*2002 Data obtained from MO DHSS, Health Resources Statistics 2002 Physician Survey

Source: American Medical Association

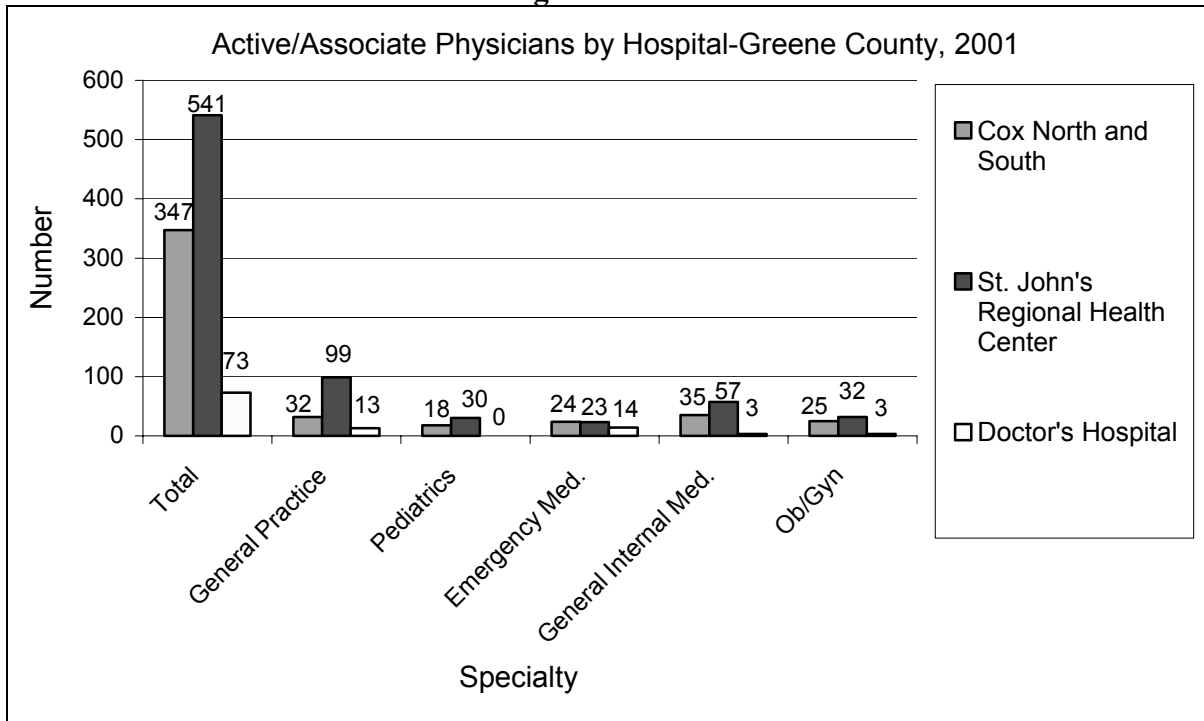
**Table 10.2**

#### Physicians by Selected Specialties-Greene County, 2004

	Total
All Specialties	887
General/Family Practice	131
Internal Medicine	120
Obstetrics/Gynecology	42
Pediatrics	44
General Surgery	42
Emergency Medicine	41
Geriatrics	5
Infectious Disease	4

Sources: American Medical Association, Greene County Medical Society, Springfield-Greene County Health Department HAN Database

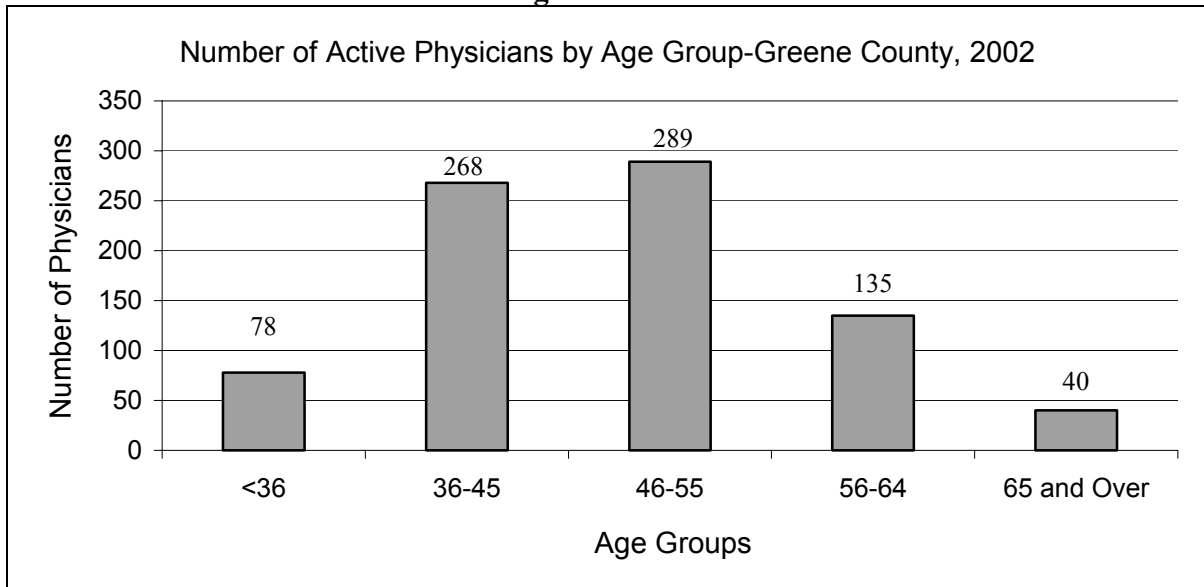
**Figure 10.1**



Source: Missouri Department of Health and Senior Services

The number of physicians by age group is listed in Figure 10.2 for Greene County. The majority of physicians in the county are over the age of 46, with 175 physicians being over the age of 55.

**Figure 10.2**



Source: Missouri Department of Health and Senior Services, Health Resources Statistics

## Hospitals and Nursing

Table 10.3 lists the number of staffed beds by hospital for 2000, 2001, and 2003. Since the year 2000, there has been an increase of 166 total staffed hospital beds in the county.

**Table 10.3**

<b>Total Staffed Hospital Beds by Institution-Greene County, 2000-2003</b>						
(Excluding Psychiatric Beds)	<b>2000</b>	<b>%</b>	<b>2001</b>	<b>%</b>	<b>2003*</b>	<b>%</b>
Cox North	80	6.3	79	7.0	238	16.5
Cox South	552	43.3	553	48.7	677	47.0
St. John's	597	46.9	473	41.7	505	35.1
Doctor's Hospital of Springfield	45	3.5	30	2.6	20	1.4
Total	1,274		1,135		1,440	

Source: Missouri Department of Health and Senior Services, 2001 Hospital Profile

\*2003 Data gathered from individual hospitals

The number of skilled nursing beds has remained constant over the previous four years in area hospitals, with 123 licensed skilled nursing beds (Table 10.4). Figure 10.3 displays the proportion of beds by hospital in Greene County for the year 2003.

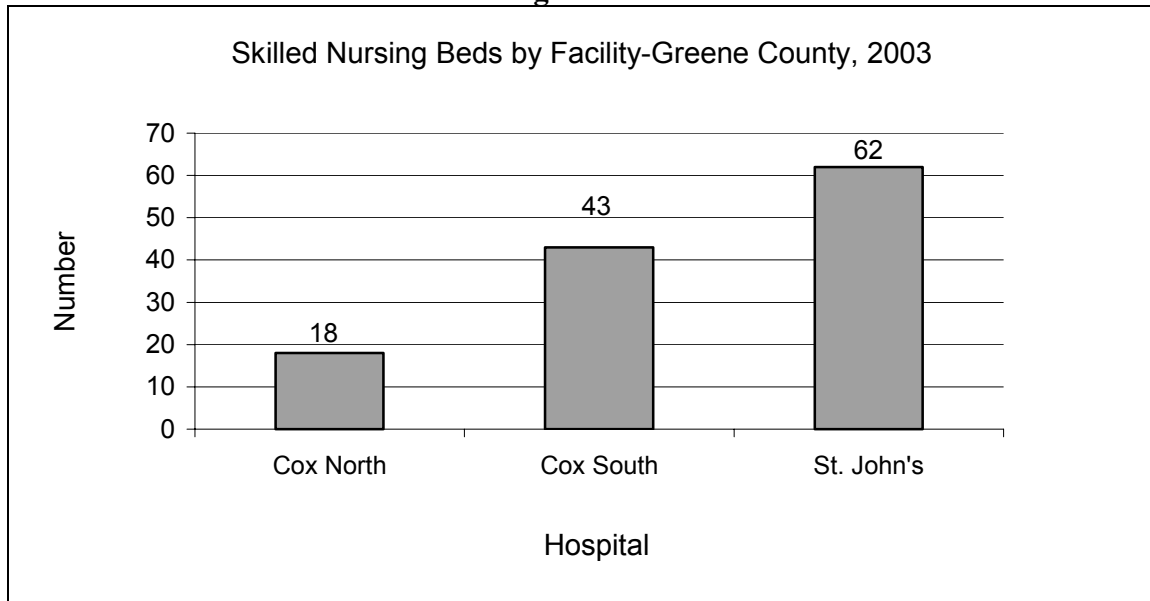
**Table 10.4**

<b>Percentage of Total Licensed Skilled Nursing Beds by Hospital-Greene County, 2000-2003</b>					
	<b>2000</b>	<b>%</b>	<b>2001</b>	<b>%</b>	<b>2003*</b>
Cox North	18	14.6	18	14.6	18
Cox South	43	35.0	43	35.0	43
St. John's	62	50.4	62	50.4	62
Doctor's Hospital of Springfield	0	0	0	0	0
Lakeland Regional Hospital	0	0	0	0	0
Total	123		123		123

Source: Missouri Department of Health and Senior Services, 2001 Hospital Profile

\*2003 Data gathered from individual hospitals

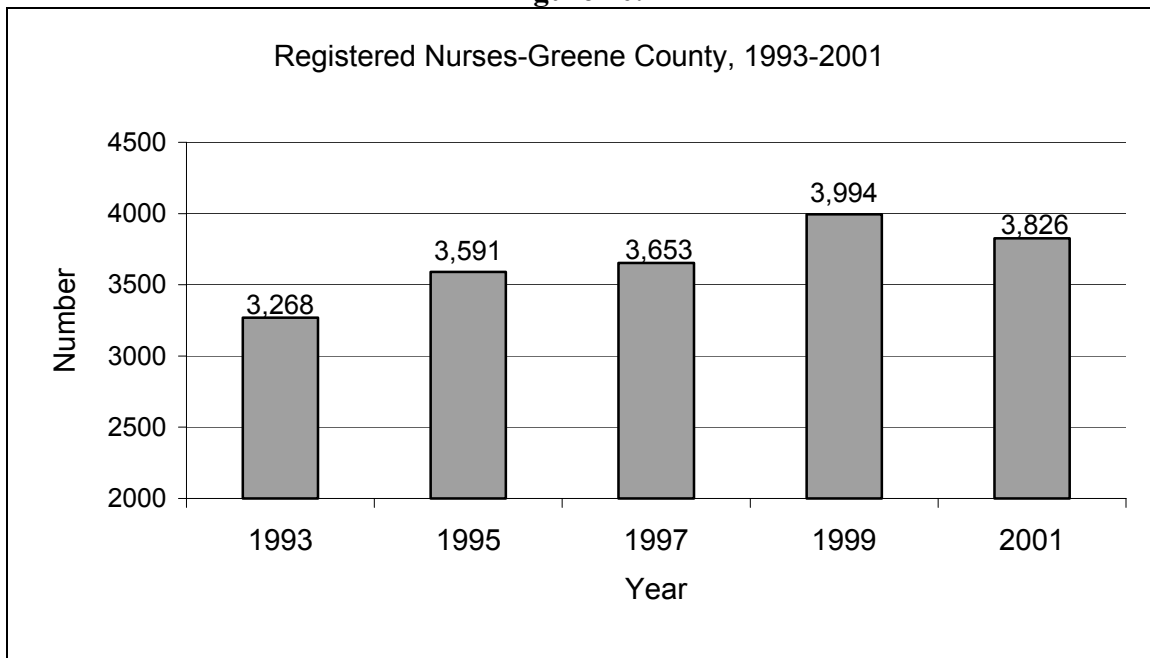
**Figure 10.3**



Source: 2003 Data gathered from individual hospitals

The number of registered nurses in Greene County is presented in Figure 10.4 from the years 1993 to 2001. The number of nurses in the county has steadily increased through the 1990s. However, a decrease of 168 registered nurses did occur between 1999 and 2001.

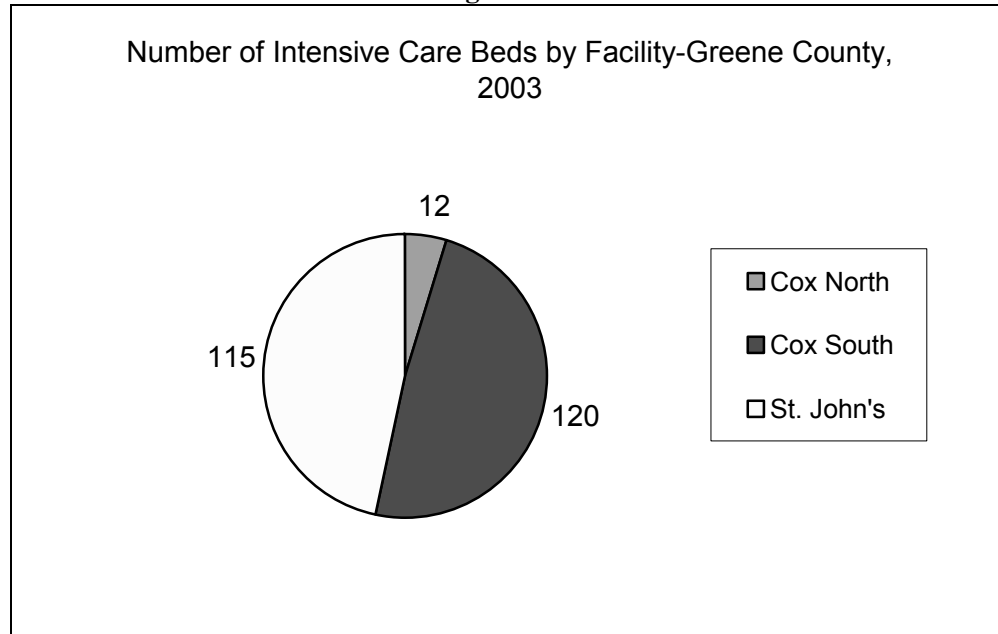
**Figure 10.4**



Source: Missouri Department of Health and Senior Services

Figure 10.5 illustrates the number of total intensive care beds by hospital for Greene County in 2003. The total number of intensive care beds includes: neonatal, pediatric, neuro-trauma, cardiac, and general intensive care beds.

**Figure 10.5**



Source: Missouri Department of Health and Senior Services

The number of medical surgical beds has fluctuated in the last three years. However, as of July 2003, Greene County had a total of 1,106 total medical surgical beds, an increase of 41 beds since the year 2000.

**Table 10.5**

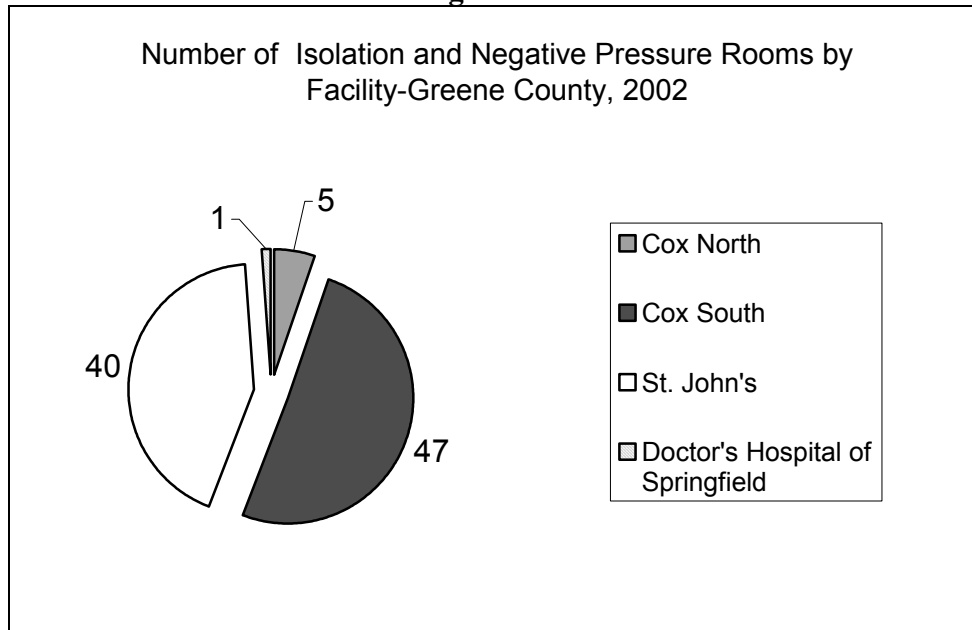
<b>Percentage of Total Licensed Medical-Surgical Beds by Institution-Greene County, 2000-2003</b>						
	<b>2000</b>	<b>%</b>	<b>2001</b>	<b>%</b>	<b>2003*</b>	<b>%</b>
Cox North	173	16.2	198	18.8	208	19.1
Cox South	374	35.1	346	32.8	388	35.6
St. John's	473	44.4	473	44.9	473	43.4
Doctor's Hospital of Springfield	45	4.2	37	3.5	20	1.8
<b>Total</b>	<b>1,065</b>		<b>1,054</b>		<b>1,089</b>	

Source: Missouri Department of Health and Senior Services

\*2003 Data gathered from individual hospitals

Area Hospitals reported having 93 isolation and negative pressure rooms in 2001. Figure 10.6 indicates the number of rooms by hospital.

**Figure 10.6**



Source: Missouri Department of Health and Senior Services

The numbers of psychiatric beds are listed by hospital for the years 2000 to 2003 in Table 10.6. Overall, there was a slight decrease in the total number of psychiatric beds in Greene County.

**Table 10.6**

Total Licensed Psychiatric Beds by Facility-Greene County, 2000-2003						
	2000	%	2001	%	2003*	%
Cox North	61	18.9	61	19.6	71	21.9
Cox South	0	0	0	0	0	0
St. John's	129	39.9	129	41.5	129	39.8
Doctor's Hospital of Springfield	0	0	8	2.6	8	2.5
Lakeland Regional Hospital	133	41.2	113	36.3	116	35.8
Total	323		311		324	

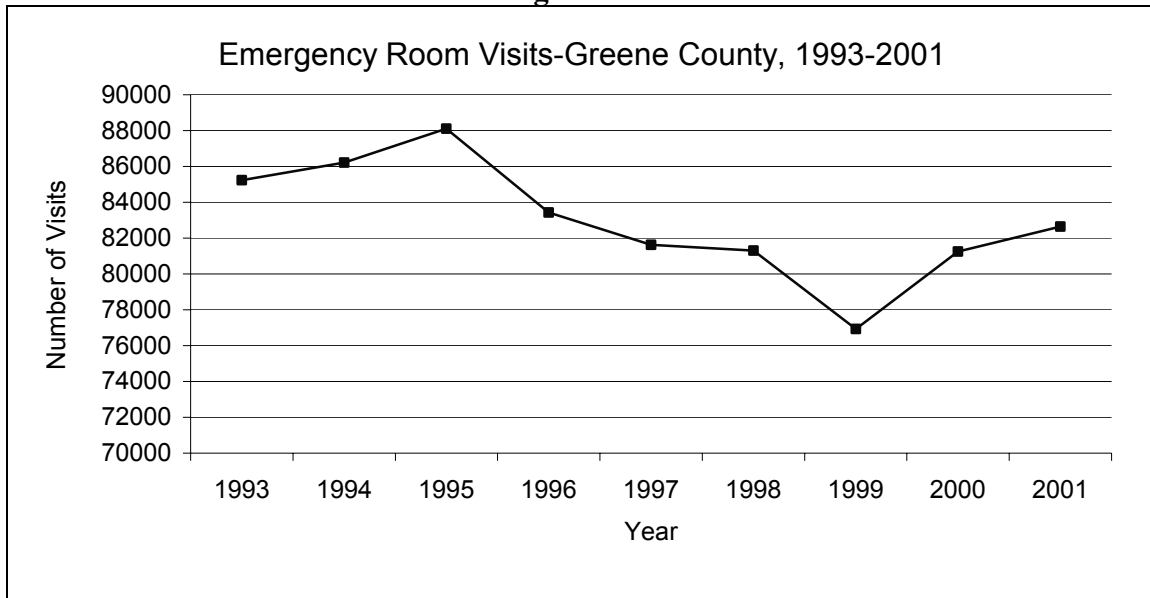
Source: Missouri Department of Health and Senior Services

\*2003 Data gathered from individual hospitals

The numbers of emergency room visits from 1993 to 2001 are plotted in Figure 10.7, as reported by the Missouri Department of Health and Senior Services. A downward trend was observed from 1995 to 1999, with an increase in visits being observed in the year 2000 and 2001.



**Figure 10.7**



Source: Missouri Department of Health and Senior Services

Occupancy rates for Greene County hospitals for the year 2002 indicate an average total occupancy of 66.2% (Table 10.7). Table 10.7 also indicates that the average length of stay in 2002 was 5.2 days, excluding Lakeland Regional Hospital, a psychiatric facility.

**Table 10.7**

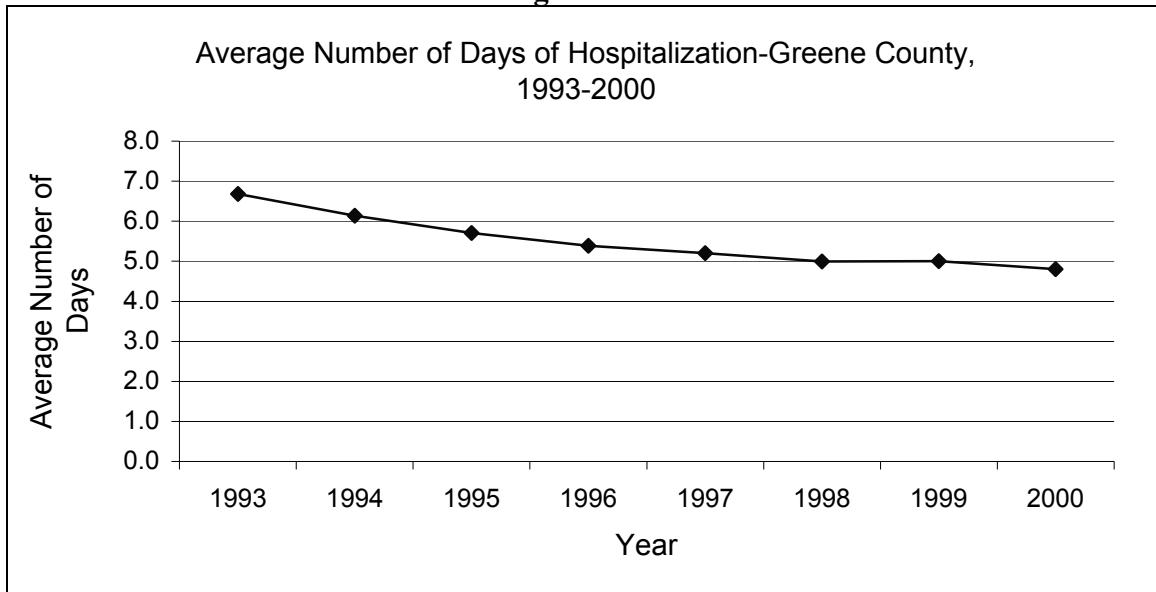
Hospital Occupancy Rates (Including Psychiatric Hospitals)-Greene County, 2001 and 2002						
	Medical Surgical		All Beds		Average Length of Stay	
	2001	2002	2001	2002	2001	2002
Cox North	56.6	52.1	62.4	68.0	5.1	5.4
Cox South	65.7	69.9	63.1	61.4	5.0	5.0
St. John's	69.9	72.0	64.1	66.6	4.8	4.7
Doctor's Hospital of Springfield	33.4	38.5	38.9	43.5	5.1	5.6
Lakeland Regional Hospital*			90.3	91.7	12.0	10.0

Source: Missouri Department of Health and Senior Services

\*Psychiatric facility

The average length of stay for patients in Greene County from 1993 to 2000 is illustrated in Figure 10.8. An overall downward trend has occurred with the average hospitalization decreasing from 6.7 days in 1993 to 4.8 days in 2000.

**Figure 10.8**



Source: Missouri Department of Health and Senior Services

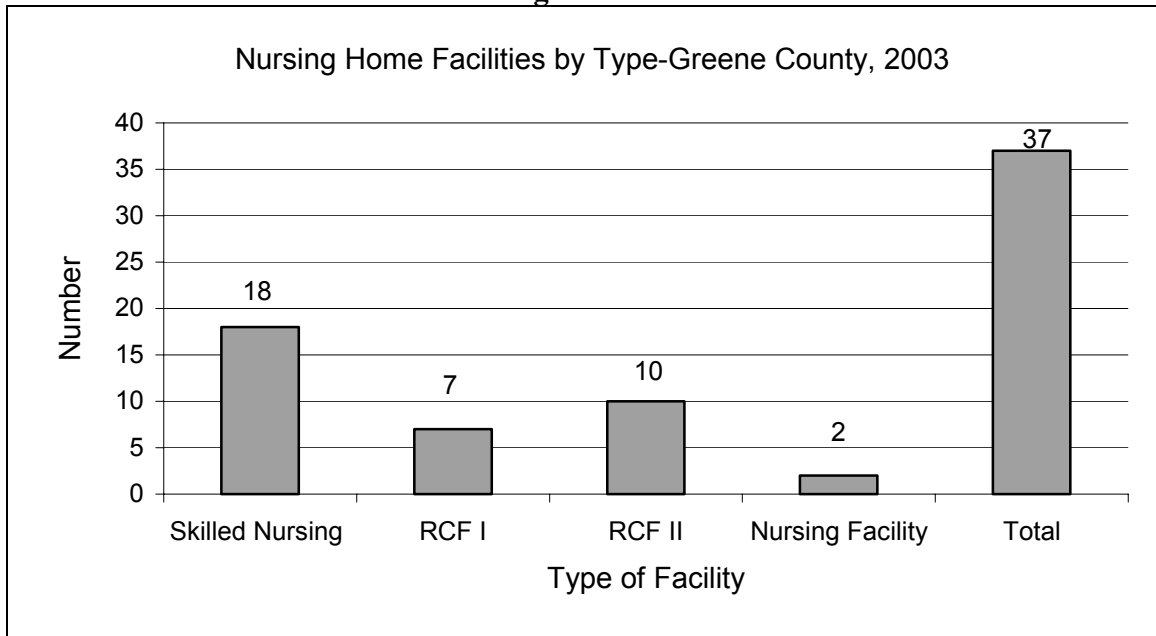
### **Long-Term Care**

The number and type of long-term care facilities are displayed in Figure 10.9. In 2003, there were 37 licensed nursing homes in the county with 18 being skilled nursing facilities (SNF) and 17 being residential care facilities (RCF) (Figure 10.9). The number of beds by type of facility is shown in Figure 10.10. There are four levels of care provided by long-term care facilities:

- Residential Care Facility I (RCF I): provides shelter, board and protective oversight; this may include keeping and distributing medications and providing care during short-term illnesses or recuperation.
- Residential Care Facility II (RCF II): provides additional services, including supervision of diets and assistance with personal care.
- Intermediate Care Facility (ICF): provides board, personal care, basic health and nursing care services under the daily supervision of a licensed nurse and under the direction of a licensed physician.
- Skilled Nursing Facility (SNF): provides board, skilled nursing care and treatment services commonly performed by or under the supervision of a registered professional nurse. Individuals living in an SNF require twenty-four hour care and other nursing functions requiring specialized judgment and skill.

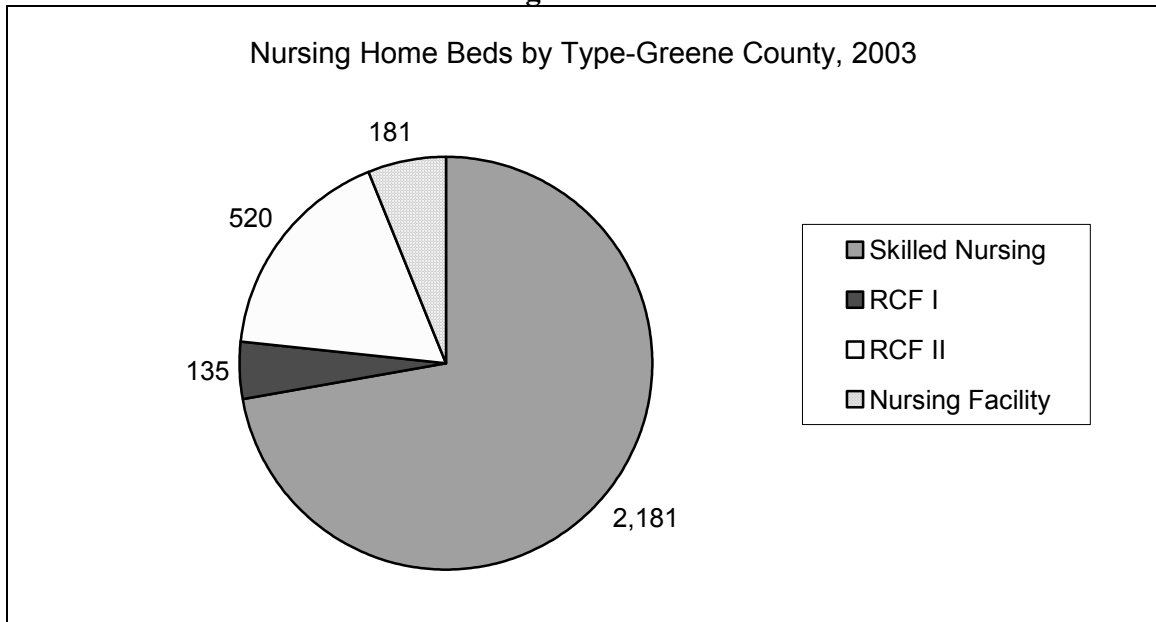
Missouri Guide for Seniors, Choosing a Long-term Care Facility

**Figure 10.9**



Source: Missouri Department of Health and Senior Services

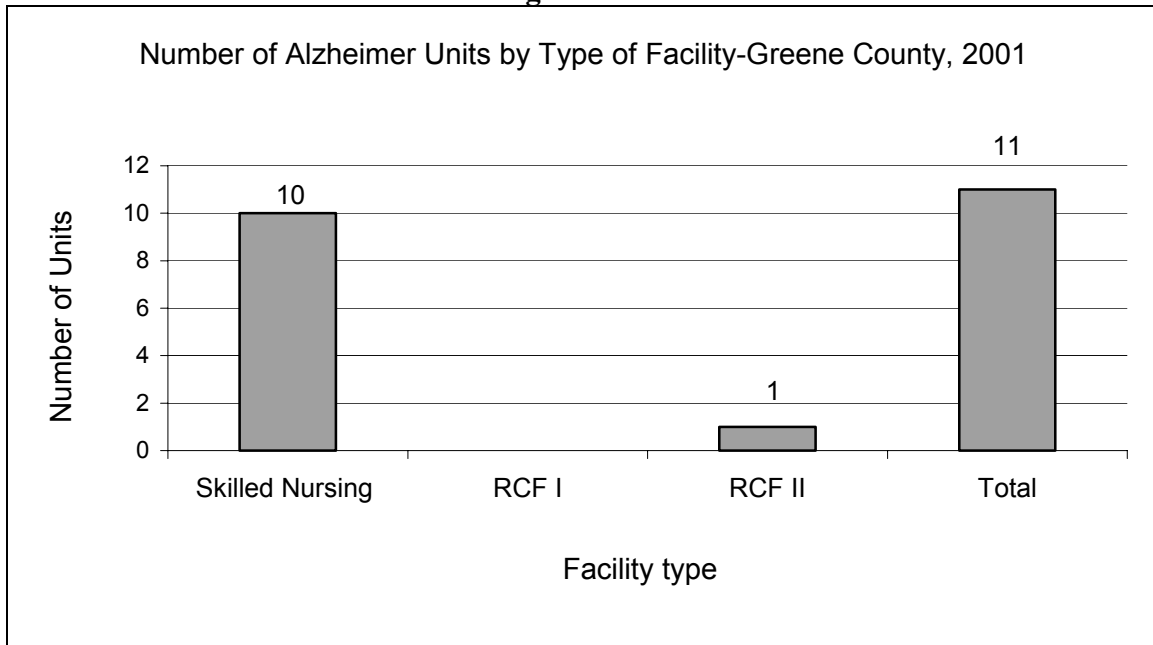
**Figure 10.10**



Source: Missouri Department of Health and Senior Services

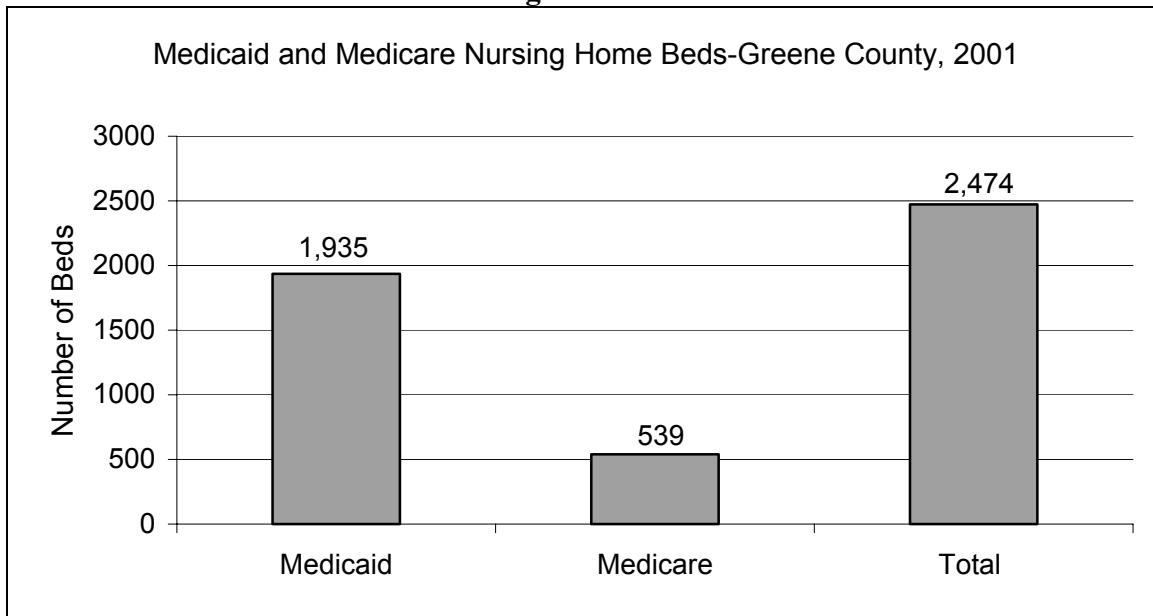
Figure 10.11 shows the number of Alzheimer units that were available by facility in 2001. There were 11 Alzheimer units in Greene County nursing homes, with 10 located in skilled nursing facilities and one unit located in an RCF II facility.

**Figure 10.11**



Source: Missouri Department of Health and Senior Services

**Figure 10.12**



Source: Missouri Department of Health and Senior Services

Of Greene County's 2,813 nursing home beds, 2,500 were available for Medicaid and Medicare services in 2001.

## Insurance Coverage

Insurance coverage has become increasingly important for everyone as health care costs continue to increase. A survey released by the Missouri Department of Health during 2003 indicated that 12.7% of county residents were without medical insurance. This percentage would result in over 30,500 residents in Greene County being uninsured. This figure is predicted to worsen as health insurance costs continue to increase and employers are forced to restrict coverage options. Medicaid helps to provide lower income individuals with health insurance, but some residents who have incomes that exceed these lower limits continue to be unable to afford private health insurance. Medicare is available for seniors and those who have other conditions such as end-stage renal disease. While these programs aid those who are in need, a segment of the population continues to struggle with increasing health care costs.

Table 10.8 lists the number of elderly and disabled residents enrolled in Medicare as of March 2003. The table lists those enrolled in Medicare Health Insurance (HI) and Supplemental Medical Insurance (SMI).

**Table 10.8**

<b>Medicare Enrollment-Greene County, March 2003</b>								
<b>Elderly</b>			<b>Disabled</b>			<b>TOTAL Elderly &amp; Disabled</b>		
HI and/or SMI	HI	SMI	HI and/or SMI	HI	SMI	HI and/or SMI	HI	SMI
31,989	31,828	31,091	6,042	6,042	5,403	38,031	37,870	36,494

Source: Centers for Medicare & Medicaid Services, March 2003

Medicaid participation for residents of Greene County is outlined in Table 10.9 and 10.10. For those under 19 years of age, 21,461 were enrolled, with 19,355 being White and 1,309 being African American/Black. The total number of those enrolled in Medicaid for the year 2003 exceeded 39,000 with the majority of participants being less than 65 years of age.

### Other Medicaid Statistics:

- Per Capita Medicaid Dollars Spent: \$660 (2002)
- Percent of Births Paid for by Medicaid: 49.6% (2002)
- Percent of Inpatient Hospitalizations Paid by Medicaid: 16.9% (2001)
- Emergency Room Visits Paid by Medicaid: 30.7 % (2001)

**Table 10.9**

<b>Medicaid Participation by Age Group and Race-Greene County, 2003</b>			
<b>Age Groups</b>	<b>Total</b>	<b>White</b>	<b>African American/Black</b>
Under 1	1,687	1,544	59
1 to 4	5,804	5,253	297
5	1,274	1,139	86
6	1,186	1,061	84
7 to 9	3,334	2,983	236
10 to 14	5,030	4,529	354
15 to 17	2,409	2,182	146
18	737	664	47
<b>Total Under 19</b>	<b>21,461</b>	<b>19,355</b>	<b>1,309</b>
19	442	405	19
20	430	399	21
21	479	440	21
22 to 24	1,618	1,471	86
25 to 34	4,421	3,954	214
35 to 44	3,646	3,286	175
45 to 54	2,454	2,243	108
55 to 64	1,718	1,592	57
Total Under 65	36,669	33,145	2,010
65 and Over	3,109	2,916	80
Unknown	11	11	
<b>TOTAL</b>	<b>39,789</b>	<b>36,072</b>	<b>2,090</b>
Percent of Population Under 65 on Medicaid	15.1%		

Source: Missouri Department of Health and Senior Services

*For More Information, Please Refer to These Works Cited and Consulted*

American Medical Association.

Website: <http://www.ama-assn.org>

Centers for Medicare & Medicaid Services.

Website: <http://cms.hhs.gov/>

Greene County Medical Society.

Website: <http://www.gcmsonline.org>

Missouri Department of Health and Senior Services, 2000 and 2001 Hospital Profiles-Greene County. Updated 6/12/03.

Missouri Department of Health and Senior Services, 2001 Nursing Home and RCF Profile-Greene County. Updated 5/14/03.

Missouri Department of Health and Senior Services, 2003 Medicaid Participation by Age and Race for Greene County Residents.

Website: <http://www.dhss.state.mo.us/profiles/Medicaid/MedicaidGreene.html>, updated 12/6/03.

Springfield-Greene County Health Department. Health Alert Network, Physician List. Data collected June, 2003.

Springfield-Greene County Health Department.

Website: <http://www.ci.springfield.mo.us/health/pages/home.html>

“Do or do not. There is no try.”

Yoda, The Empire Strikes Back

“If you would win a man to your cause, first convince him that you are his sincere friend.”

Abraham Lincoln

“If you don't know where you are going, you will probably end up somewhere else.”

Laurence J. Peter